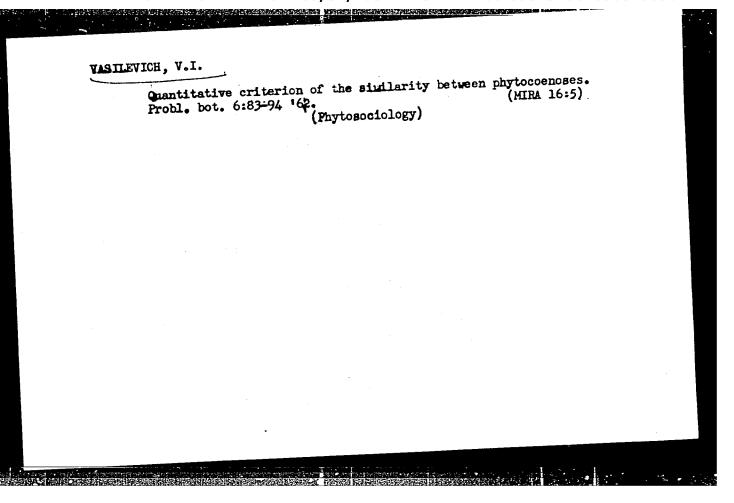


VASILEVICH; V.I.

Association of species and structure of phytocoenoses. Lokl. AN SSSR 139 no.4:1001-1004 Ag '61. (MIRA 14:7)

1. Botanicheskiy institut im. V.L. Komarova AN SSSR. Predstavleno akademikom V.N. Sukachevym.

(Phytosociology)



VASILEVICH, V.I.

"The phytosociology of boreal conifer-hardwood forests of the Great Lakes region" by P.F.Maycock and J.T.Curtis. Reviewed by V.I.Vasilevich. Bot. zhur. 47 no.5:755-757 My '62. (MIRA 16:5)

1. Botanicheskiy institut imeni V.L.Komarova AN SSSR, Leningrad. (Great Lakes region—Forest ecology)

VASILEVICH, V.I.

Relationship between the reproduction of pine and the underwood. Bot. zhur. 47 no.9:1383-1387 S '62. (MIRA 16:5)

1. Botanicheskiy institut imeni V.L.Komarova AN SSSR, Leningrad. (Pine) (Forest ecology)

VASILEVICH, V.I.

Statistical approach to a plant association. Trudy Bot. inst. Ser. 3 no. 15:94-105 '63. (MIRA 17:5)

VASILEVICH, V.I.

Morphological analysis of the meadow continuum. Bot. zhur. 48 no.11:1653-1659 N '63. (MIRA 17:4)

1. Botanicheskiy institut imeni Komarova AN SSSR, Leningrad.

VASILEVICH, V.I.

Use of parital conjugation in analyzing the structure of phytocenosis. Dokl. AN SSSR 148 no.1:214-216 Ja '63.

CONTRACTOR AND MARKET STATEMENT OF THE S

1. Botanicheskiy institut im. V.L. Komarova AN SSSR. Predstavleno akademikom V.N. Sukachevym.

(Plant communities)

VASILEVICH, V.I.

Review of the works on the use of interspecific correlations for the classification of vegetation. Bot. zhur. 50 no.1:143-147 Ja (MIRA 18:3)

1. Botanicheskiy institut imeni Komurova AN SSSR, Leningrad.

KRASOVSKIY, L.I.; L'VOV, P.N.; VASILEVICH, V.I.

Reviews and bibliography. Bot.zhur. 50 no.11:1648-1650 N '65. (MIRA 19:1)

1. Arkhangeliskiy lesotekhnicheskiy institut. Submitted May 5, 1965 (for Krasovskiy, Livov). 2. Botanicheskiy institut imeni V.L.Komarova AN SSSR, Leningrad. Submitted May 4, 1965 (for Vasilevich).

SMIRNOV, V.G., VASILEFICH Yu.A.

Testing burnt-out areas by borings with core extraction. Podzen.
gaz.ugl. no.2:58-61 '57. (MLRA 10:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut Podzengaz.
(Coal--Testing) (Boring)

Using a cumulative expolding pipe cutter for the underground repair of boreholes. Podzem. gaz. ugl. no.1:62-64 '59.

(MIRA 12:6)

1,VNIIPodzemgaz.

(Gas producers--Maintenance and repair)

(Pipe cutting)

Value of the schools of the relative of the Banchechast tate Regional Charters ever Final Research (ABC 1883)

"On an Island of Peat," (Na Ostrove Bolchogo Uglya), by N. Sviridov, G. Vasilevoy and S. Betsrum, Tekh. Molod., No. 12, 1953.

Abs. D210896, 29/4/55

但教验	PRESENTATION OF THE	A SECTION OF THE SECT	ANGEST FRANCISCO TRANSPORTED TO THE PROPERTY OF THE PROPERTY O		D 4	31421		
	VASIL'KOV, B	. P.	USSR/Medicine - 1 description of eder nontoxicity. problem is far finains much work pharmacologists.	As soon as the throughout the morels are edil as food by the Morth America. cases of polso The author sta polsonous more	A Triroda"	Marels," B. P	USSR/Nedicine	4
			- Pois f each y. He r from rk for	the for edible the per the per the per morels,	No 7	Status Vasil	ine - Poisons an	e .
			and the clude rolo	As soon as the snow thaws all types of morels appear throughout the forests of the USSR. Many of these morels are edible and have for many years been used as food by the peoples of Russia, Europe, Asia and Sorth America. There have also been some serious cases of poisoning, however, from eating these more the author states that there are edible as well as poisonous morels, and he goes on to give a brief the		of the Edibility kov, 8 pp	s and Poisoning	
		VI.	and Poisoming (Contd) Jul 1946 the reasons for the toxicity hudes by stating that this ng solved and there still re- rologists, chemists, and	of norels appear Many of these y years been used Europe, Asia and en some serious eating these morel dible as well as o give a brief 54754	•	ty and Toxicity	ng Jul 1946	3
		45246	Jul 1946 cariosty this fill re- nd	these en used is and rious se morels. Fall as rief		ity a	916	

VATILIKOV, B.P.

P#23/49T92

USSR/Medicine - Fungi

Medicine - Literature, Medical

Nov 48

"Review of A. I. Molodchikov's Book, 'The Fungus World,'" B. P. Vasil'kov, 2 pp

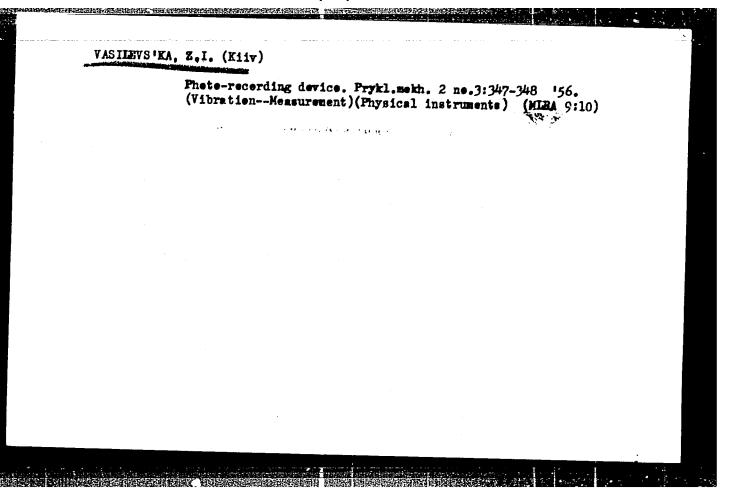
"Priroda" No 11

Reviews unfavorably. Author does not know his fungi. Published by Goskol'tprosvetizdat, Moscow, 1947, 40,000 copies, price 3 rubles, 20 kopeck.

FDB

23/49192

USSR/Medicine - Mushrooms Medicine - Nutrition	May 48			
"B. P. Golenzovskiy's 'Procurement and Processing of Mushrooms,'" B. P. Vasil'kov, 21 pp				
"Prince" No 5				
Reviews unfavorably. Handbook for cusses food value of mushrooms, a rooms and conditions for their go mushrooms, and pickling of mushrovsesoyuz Ob'yed Tsentrolektekhsyn 20,000 copies printed.	tructure of mush- cowth. types of coms. Published by			
FDB	5/49184			



VASILEVSKAYA, A.

Extracurricular work of teachers. Prof.-tekh. obr. 22 no.7: 22-23 J1 '65. (MIRA 18:8)

VASILEVSKAYA, A. (Leningrad)

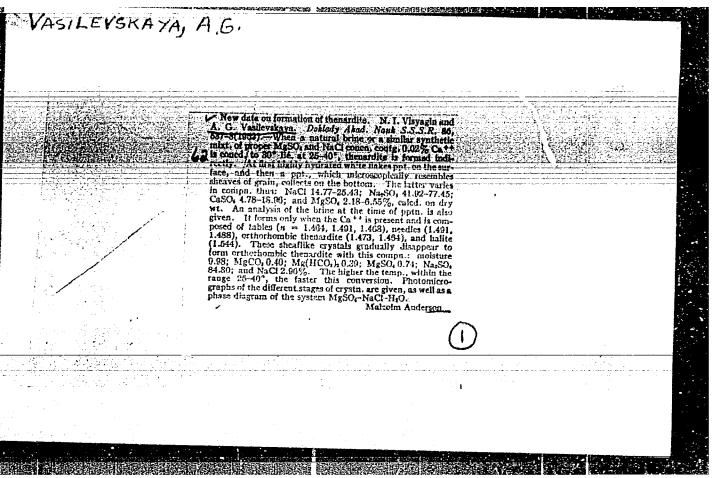
Education and training comprise the same process. Prof.-tekt. cbr. 21 no.9:8-9 S '64. (MIFA 17:11)

VASILEVSKAYA, A.D.; ARTYUSHEVSKIY, G.N., red.

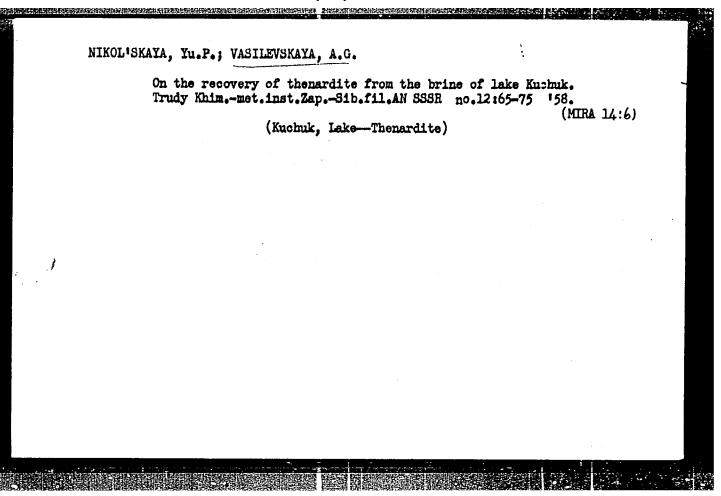
[Chemistry in the publications of White Russian scientists; bibliography for 1945-1963] Khimiia v izdaniiakh uchenykh Belorussii; bibliograficheskii ukazatel literatury 1945-1963 gg. Minsk, Nauka i tekhnika, 1964. 225 p.

(MIRA 17:12)

1. Akademiya navuk BSSR, Minsk. Fundamental naya biblioteka.



VISYAGIN, N.I. [deceased]; VASILEVSKAYA, A.G.



VASILEVS AYA, A.G., Cand onem Sci -- (diss) "Physico-chemical bacis for the formation of thenardite in the lakes of the Kulundin steppe." Kazan', 1959, 14 pp (Min of Higher Education USSR. Kazan' Order of Labor ded Banner State Univ im V.I. Ul'yanov-Lenin) 150 copies (MI, 28-59, 123)

- 18 -

VASILEVSKAYA, A.G.

Binary compounds from calcium and sodium sulfates and their role in the formation of natural thenardite. Isv.Sib.ots. AN SSSR no.1:76-90 (59. (MIRA 12:4))

1. Zapadno-Sibirskiy filial AN SSSR. (Thenardite) (Sulfates)

YASILEVSKAYA, A.G. WINKO, G.M.; KOLOSOV, A.S.:

Calcium content of natural salts of Krasnoyarsk Territory.

Izv. Sib. otd. AN SSSR no. 10:36-46 '60. (MRA 13:12)

1. Institut obshchey i neorganicheskoy khimii imeni N.S. Kurnakova i Khimiko-metallurgicheskiy institut Sibirskogo otdeleniya AN SSSR.

(Krasnoyarsk Territory -- Calcium salts)

ACTECP: Sonin, A.S.: renfilowe, W.T. Wanilevakaya, A.S.

"Sülmik: AN Sosh. Izvestiya.Ser.fizioneszaya,v.za,no.b,la60, a69-a7z

TOPIC TAGS: ferroelectric crystal, triglycine sulfate, double refraction

ABSTRACT: The electro-optical properties of triglycine sulfate were investigated both above and below the Surie point. Two Y-out crystals were

Caral/2

ACCESSION NOT ARTHUR TO THE CONTROL OF THE CORP.

THE DESTRUCTION OF THE CORP.

THE DESTRUCTION OF THE CORP.

ASSOCIATION: nene

SIZE SCV: GG1

COMMER: GGA

COMMER: GGA

COMMER: GGA

COMMER: GGA

COMMERCATION OF THE CORP.

COMMERCATION OF THE COMMERCATION OF THE CORP.

COMMERCATION OF THE COMMERCATION OF THE COMMERCA

ACC NR. 115032960

SOURCE CODE: "UR/0070/66/011/005/0755/0759

AUTHOR: Vasilevskaya, A. S.

ORG: none

TITLE: Concerning the electro-optical properties of crystals of KDP type

SOURCE: Kristallografiya, v. 11, no. 5, 1966, 755-759

TOPIC TAGS: ammonium compound, potassium compound, rubidium compound, phosphate, electrooptic effect, electric polarization, pressure effect, constant property

ABSTRACT: To ascertain the nature of the electrooptic effects in crystals, and also for practical applications, the author investigated the electrooptic coefficients of mechanically free and clamped crystals of ammonium dihydrophosphate (ADP), potassium dihydrophosphate (KDP), deuterated potassium dihydrophosphate (DKDP) and rubidium dihydrophosphate (RDP). The values of the electrooptic coefficients and their dispersion were determined in the wavelength interval from 4000 to 7250 Å. The experimental setup and the measurement procedure are described elsewhere (Kristallografiya, v. 10, no. 3, 1965). The measurements were made on 45° Z-cuts of crystals made in the form of prisms with the long dimension in the direction of the applied load (110). Three four samples of each crystal were tested. The piezooptic coefficients and their wavelength dependence were different for the different crystals, but exhibited a similar variation, the difference being mostly quantitative. It is shown that the electrooptic effect of mechanically clamped crystals is 90 - 94% of the electrooptic

Card 1/2

VDC: 548.0: 537.228

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001858810006-4"

ACC NR: AP6032960

effect of free crystals in the case of KDP, RDP, and DKDP, and 60 - 70% for ADP. It is also shown that the ratio of the contribution of electronic to electron-ion polarization to the electrooptic effect, which amounts to about 50% in the case of free crystals, is altered by application of pressure to a small degree in KDP, DKDP, and RDP, but to a larger degree in ADP. The difference is related to the presence of a different system of hydrogen bonds. The author thanks A. S. Sonin for a discussion of the results, M. F. Koldobskaya for supplying the samples, and I. S. Rez and I. S. Zheludev for continuous interest and advice, as well as L. A. Shuvalov for supplying the data on the dielectric properties of the RDP crystals. Orig. art. has: 5 figures and 3 formulas.

SUB CODE: 20/ SUBM DATE: 19May65/ ORIG REF: 001/ OTH REF: 012

Card 2/2

KARASIK, M.A. [Karasyk, M.A.]; VASILEVSKAYA, A.Ye. [Vasylevs'ka, A.IE.]; PETROV, V.Ya.; RATEKHIN, Ye.A. [Ratiekhin, IE.A.]

Distribution of mercury in the fossil coal of the TSentral'nyy and Donets-Makeyevka regions of the Donets Basin. Geol. Lhur. 22 no.2:53-61 '62. (MIRA 15:4)

1. Institut mineral'nykh resursov AN USSR. (Donets Basin--Mercury)

VASILEVSKAYA, A.Ye.; SHCHERBAKOV, V.P.; KLIMENCHUK, V.P.

Determination of mercury in coals by dithizone. Zav.lab. 28 no.4:415 162. (MIRA 15:5)

1. Institut mineral'nykh resursov AN USSR.
(Mercury—Analysis) (Dithizone)
(Coal—Analysis)

DVORNIKOV, A.G.; VASILEVSKAYA, A.Ye.; SHCHERBAKOV, V.P.

Some characteristics of the distribution of mercury dispersion halos in the soils of the Nagolinyy Range. Goekhimia no.5: 478-483 My '63. (MIRA 16:7)

1. Institute of Mineral Resources of the Academy of Sciences. U.S.S.R., Moscow.

(Nagolinyy Range-Mercury ores)

VASIIEVOKAYA, A. Ye. [Navy neverban, c. t..]; strong and cor, was.

公共国的社会由各种的现在式和网络公共产业性关系是,实验的支持方式的实验。(2012年26日20日20日20日20日20日20日20日20日20日20日20日20日

Forms of mercery compounds in Hometa Basin conta. An High no.11:1494-1496 163. (MIDA 17:12)

1. Institut mineral'nykh resursov Al UkrSDR.

VASILEVSKAYA, A.Ye.: SHCHERBAKOV, V.P.; LEVCHENKO, A.V.

Determination of small amounts of mercury in waters. Zhuranalakhim. 18 no.7:811-815 Jl 163. (MIRA 16:11)

1. Institute of Mineral Resources, Academy of Sciences, Ukranian SSR, Simferopol.

DVORNIKOV, A.G.; VASILEVSKAYA, A.Ye.; SHCHERBAKOV, V.P.; SHVAKOVA, A.A.

Mercury dispersion halos in the soils of the Nagol'no-Tarasovka and Mar'yevko-Dar'yevka complex metal deposits. Izv. AN SSSR. Ser.geol. 28 no.5:96-100 My '63. (MIRA 17:4)

1. Institut mineral'nykh resursov AN UkrSSR, Simferopol'.

SHCHERBAKOV, V.P.; VASILEVSKAYA, A.Ye.

Determination of mercury in the products of coal processing. Zhur. anal. khim. 19 nc.3:308-311 '64. (MIRA 17:9)

1. Institut mineral'nykh resursov AN UkrSSR, Simferopol'.

VASILEVSKAYA, A.Ye.: SUCHERBAKOV, V.P.; KAREKOMOVS, Ye.V.

New method for the determination of mercury in coals. Zhur.anal.khim. 19 no.10:1200-1203 164. (MIRA 17:12)

1. Institute of Mineral Resources, Simferopol.

THE REPORT OF THE PROPERTY OF

ACCESSION NR APWIL6097

The water monaching of

AUTHOR: Vasilevskaya, A. Ye., Lenskaya, I., K.



TITLE: Determination of boron in certain natural substances by means of salicylic acid and crystal violet

SOURCE: Zhurnal analiticheskoy khimii, v. 20, no. 6, 1965, 747-749

TOPIC TAGS: boron determination obvetal child ealing to got the season water and object to a second season of the season of the

ARSTRACT The reference increased to second or the contribution of a contribution of

L 58901-65

ACCESSION NR: AP5016097

Statistical treatment of the results showed a relative error of +8.7% for the waters and the first treatment of the sentences of the sentences

Urig, art, has a table.

ASSOCIATION: Institut mineral'nykh resure a simferopol' finstitute of Mineral Resources)

SUBMITTED: 1 [Jun64]

F. 87 1 10

SUB CODE- IC

NO REF SOV: 005

OTHER: 002

Card 2/2

GOMCHARDS, Yu. 1.; VASILEVEKEYA, A.Y.

Modes of the occurrence of boron in rocks, Dokl. AN OSCR 165 no.41921-922 D 165. (MIRA 18512)

1. institut mineral'nykh resursov, Simferopol'. Submitted March 35, 1965.

and the second of the second s

Value Value

KARASIK, M.A.; GONCHAROV, Yu.I.; VASILEVSKAYA, A.Ye.

THE REPORT OF THE PROPERTY OF

Mercury in the mineralized waters and brines of the Permian halogene formation in the Donets Basin, Geokhimiia no.1:117-121 Ja *65.

(MIRA 18:4)

1. Institut mineral nykh resursov Gosudarstvennogo geologicheskogo komiteta SSSR.

VASILEVSKAYA, D. P.

VASILEVSKAYA, D. P.: "Measurement of the ultraviolet radiation absorbed by the leaves of garden plants". Leningrad, 1955. Min Higher Education USSR. Leningrad Agricultural Inst. (Dissertations for the Degree of Candidate of Technical Sciences.)

So: Knizhnaya letopis' No. 49, 3 December 1955. Moscow.

05468 SOV/120-59-3-39/46

WELL STREET, SELECTION OF THE SELECTION

AUTHORS: Vasilevskaya, D. P. and Denisov, Yu. N.

STATES OF THE PROPERTY OF THE

A Hall-effect Magnetometer (Magnitometr, osnovannyy TITLE:

na effekte Kholla)

PERIODICAL: Pribory i tekhnika eksperimenta, 1959, Nr 3,

pp 144-145 (USSR)

ABSTRACT: A piece of n-type Ge 2 x 1.5 x 0.7 mm is used to measure fields of strengths from 100 to 17,500 oersted to \pm 1%. Fig 1 shows the circuit, in which '75' denotes a 75 μA meter and the battery has an output of 15 V. Resistance R

serves to set the zero. The output is 4.3 µV per oersted with a main current of 1 mA (resistance of Ge in current circuit 47 ohms). The probe contains a thermistor and heater spiral (not shown in Fig 1), which raise the volume of the probe to 1.8 cm3; the temperature is stabilized (presumably at some value above 30°C, since the readings show very little temperature error in the range 16 - 30°C). The instrument has five ranges

and is calibrated against a proton resonance meter. There is 1 figure and 3 references, 2 of which are Soviet and 1 English.

ASSOCIATION: Ob"yedinennyy institut yadernykh issledovaniy (Joint Institute of Nuclear Research)

SUBMITTED: May 4, 1958

Card 1/1

21(9)

AUTHORS:

Vasilevskaya, D. P., Glazov, A. A., Danilov, V. I., Denisov,

Yu. N., Dzhelepov, V. P., Dmitriyevskiy, V. P., Zamolodchikov,

B. I., Zaplatin, N. L., Kol'ga, V. V., Kropin, A. A., Lia.
Niebust harra Rybalko, V. S., Savenkov, A. L., Sarkisyan, L. A.

Nieh-shwat, Rybalko, V. S., Savenkov, A. L., Sarkisyan, L. A.

TITLE: Putting Into Operation a Cyclotron With a Spatially Varying
Tension of the Magnetic Field (Zapusk tsiklotrona s prostranst-

vennoy variatsiyey napryazhennosti magnitnogo polya)

PERIODICAL: Atomnaya energiya, 1959, Vol 6, Nr 6, pp 657 - 658 (USSR)

ABSTRACT: In the present "Letter to the Editor" the authors report on some measurements and theoretical considerations concerning

some parameters of the new cyclotron. In the Laboratoriya yadernykh problem Ob"yedinennogo instituta yadernykh issledo-vaniy (Laboratory for Nuclear Problems of the Joint Institute for Nuclear Research) in the town of Dubna the new cyclic accelerator was started in January 1959; this new type shows both an azimuthally and a radially periodically varying magnetic

field. The diameter of the magnet of the accelerator is 1200 mm. The lines of constant field tension have the shape of spirals

Card 1/3 of Archimedes, $r = 16.2 \varphi$, periodicity of the field structure:

Putting Into Operation a Cyclotron With a Spatially Varying Tension of the Magnetic Field

scv/89-6-6-7/27

N = 6. The mean value of the field tension increases radially according to the relativistic mass increase of the accelerated ions. Since the acceleration originates from the center of ions. Since the fundamental frequencies of the free oscillations the magnet the fundamental frequencies of the free oscillations change accordingly $Q_z = 0$, $Q_r = 1$ (at r=0) to $Q_z = 0.2$,

 Q_r = 1.01 (at r = 52 cm). It was shown theoretically that the radial increase of the mean magnetic field tension which is necessary for the elimination of the nonlinear resonance effect occurring in the center of the accelerator may decrease with increasing N, according to

 $N/2^N(N-1)!$ and with an increase of the radial spacing in the case of a fixed N as $(\chi_1/\chi_2)^{N-2}$. These investigation results were taken into account in selecting the six-spiral structure of the magnetic field in the center of which no nonlinear resonance occurs. All measurements of the field tensions were carried out by means of a nuclear magnetometer (error ± 1.5 Ge) carried out by means of a nuclear with one D-shaped electrode A resonance quarter-wave system with one D-shaped electrode was used for the ion acceleration. In the cyclotron deuterons

Card 2/3

Putting Into Operation a Cyclotron With a Spatially SOV/89-6-6-7/27 Varying Tension of the Magnetic Field

CONTROL DESCRIPTION OF THE PROPERTY OF THE PRO

were accelerated up to 12 Mev and α -particles up to 24 Mev at a minimum amplitude of the acceleration tension on the duant of 8 kv. The two methods which were used for measuring the energy in the case of a maximum orbital radius are briefly described. A picture shows the accelerating chamber of the cyclotron (Fig 2), another one an autograph of a neutron beam in the case of different radii. The investigation results prove the possibility of producing a relativistic cyclotron with a proton energy which equals that of a modern phasotron. There are 2 figures and 2 references, 1 of which is Soviet.

SUBMITTED: April 9, 1959

Card 3/3

82897

24,2300

s/120/60/000/02/028/052 E032/E414

AUTHORS:

Aleksandru, G. and Vasilevskaya. D.P.

o and the state of the state of

TITLE:

Magnetometer Based on the Hall Effect and Working on

Alternating Current

PERIODICAL: Pribory i tekhnika eksperimenta, 1960, Nr 2,

PP 107-110 (USSR)

ABSTRACT:

A description is given of an instrument based on the Hall effect (Ref 1) in n-type germanium. The instrument has been designed for: a) measurement of the absolute magnitude of magnetic fields between 0.05 and 17000 0e to an accuracy of $\pm 1\% \pm 0.5$ Oe; b) relative measurement of the topography of magnetic fields to an accuracy of 1 to 3% and c) measurement of fluctuations in the magnetic field at a given point. excited by an alternating current (4 mA) at 2500 cps. The Hall emf is amplified by a narrow-band amplifier

having an overall amplification coefficient of 1.5 \times 106. The instrument was calibrated with the aid of a nuclear magnetometer. There are 1 figure and 17 references,

Card 1/2

CIA-RDP86-00513R001858810006-4

82897

s/120/60/000/02/028/052 E032/E414

Magnetometer Based on the Hall Effect and Working on Alternating

5 of which are Soviet, 10 English and 2 German.

ASSOCIATION: Ob Gedinennyy institut yadernykh issledovaniy (Joint Institute of Nuclear Research)

SUBMITTED: February 18, 1959

Card 2/2

21.2100

78317

\$07/89-8-3-2/32

AUTHORS:

Vasilevskaya, D. P., Glazov, A. A., Danilov, V. I., Denisov, Yu. N., Dzhelepov, V. P., Dmitriyevskiy, V. P., Zamolodchikov, B. I., Zaplatin, N. L., Kol'ga, V. V., Kropin, A. A., Lyu Ne-chuan', Rybalko, V. S., Savenkov,

A. L., Sarktsyan, L. A.

ite about the bases because at the court of the selection of the court of the court

TITLE:

A Cyclotron With a Spacially Varying Magnetic Field

Intensity

PERIODICAL:

Atomnaya energiya, 1960, Vol 8, Nr 3, pp 189-200 (USSR)

ABSTRACT:

The paper outlines the theory of charged particle motion in a magnetic field with periodic structure along its azimuth and radius, and describes investigations performed during the years 1955-58 on a cyclotron accelerator with spiral-ridged magnetic fields at Joint Institute for Nuclear Research (Ob'yedinennyy institut yadernyh issledovaniy). The machine was built following the space stability theory developed at Dubno and Harwell.

Card 1/10

The authors first discuss the linear theory and investigate the particle oscillations with respect to a closed

78317 sov/89-3-3-2/32

orbit for the case of the field where the extreme values of the vertical component of the magnetic field follow the spiral of Archimedes:

$$H_z \sim H(r)\left[1 + vf(r, |q|)\right]. \tag{2}$$

$$I = \sin\left(\frac{r}{\lambda} + Nq\right),$$
 (7)

where $\mathcal E$ is depth of magnetic field variation; $2\pi\lambda$, radial pitch; N, periodicity of magnetic field structure. The authors note that a logarithmic spiral would not be convenient. In the cyclotron under consideration the basic focusing effect was due to terms containing the ratio R/λ , which for the choice of parameters by Kerst, Hausman, and others (see refs) exceeded unity in the whole radial region with the exception of the central part of the accelerator where the linear theory cannot be applied. The authors investigate radial and

Card 2/10

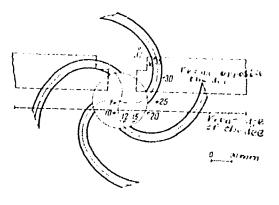
Distriction of the contraction o

78317 SOV/89-8-3-2/32

vertical oscillations and discuss the limitations on proton energies due to resonant oscillations. Next, they note that the small parameter \$\frac{1}{\lambda}\$ in Eqs. (2) and (7) magnify the nonlinear effects in such accelerators and develop equations permitting a choice of magnetic field parameters which do not produce nonlinear resonance. Experimental investigation of such resonance was produced on a model with N=4, $\lambda=1.34$ cm, $\epsilon=0.02$, and shown on Fig. 1. The location of the centers of Instantaneous orbits are denoted by points, while the numbers indicate their radii. Theoretical computations agree with experiments for s $> \lambda$, where s is radial coordinate of the center of curvature. The magnetic field of the cyclotron was then built with N = 6, χ = = 2.7 cm, and \mathcal{E} = 0.056. The displacements of orbits in this case were not larger than those due to the higher harmonies of the magnetic field structure and dld not exceed 2 cm. The authors also discussed the phase relations and tested them experimentally during deuteron acceleration up to 13 mev. Minimum potential

Card 3/10

78317 50V/89-8-3-2/32



Card 4/10

Fig. 1. Location of centers of instantaneous orbits for $N\,=\,4$.

ANA DIRECTION DE LE CONTROL DE CARTA L'ESTABLEMENT DE L'ARTENNE DE CARTA L'ESTABLEMENT DE L'ARTENNE DE L'ARTENNE DE CARTA L'ESTABLEMENT D

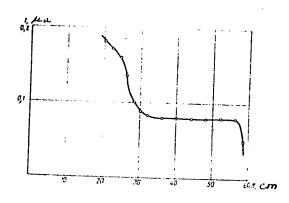
A Cyclotron With a Spacially Varying Magnetic Field Intensity

78317 SOV/89-8-3-2/32

of the dees was 5 kv. Figure 4 shows the relation between inner beam intensity and accelerator radius with an accelerating dee voltage of 11 kv. The beam was well focused everywhere and the half-width of its vertical spread was less than 1 cm. Next, the authors describe the computations of the required magnetic field and compare them with experimentally measured values. Figure 7 shows results for a field with N=6, $\lambda=2.7$. The absolute values of the field were measured using the Hall and nuclear resonance effect magnetometers. In the region of 250-24,000 Oersted with a 5-10% gradient, the fields were measured with an accuracy of +0.01%. Volume of the magnetometer feeler was 2·10⁻⁴ cm³, and the gradients were measured with an accuracy of ±1%. The cyclotron magnetic field intensity was stabilized accurately to 0.005% using a nuclear stabilizer as described by Denisov (Pribory 1 tekhnika eksperimenta (Instruments and Technics of Experiment), Nr 1, 35 (1959)). The h-f system was described earlier by Glazov and others (Radiochastotnaya

Card 5/10

78317 \$07/89-3-3-2/32



Card 6/10

Fig. 4. Particle beam currents at various radii $(v_0 = 11 \text{ kv})$.

78317 SOV/89-8-3-2/32

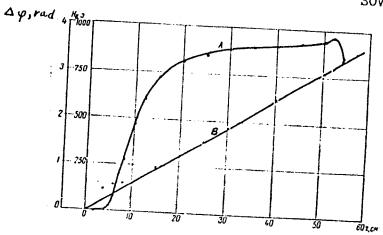


Fig. 7. (A) Amplitude of sixth harmonic of magnetic field H_6 versus radius. (B) Phase φ of spiral shim versus radius (full line--calculated; crosses--experimental data).

Card 7/10

A C. ... Stron With a Spacially Varying Magnetic Field Intensity

78317 SOV/89-8-3-2/32

sistema modeli tsiklotrona s prostranstvennoy variatsi-yey magnitnogo polya, Otchet Laboratorii yadernykh problem OIYaI (Radiofrequency System for a Model of a Cyclotron With Spacially Varying Magnetic Field, Report of the Laboratory of Nuclear Problems OIYaI) (1959)). The special feature is the existence of a single dee with a radius of 57.5 cm and a small gap between the dees and the chamber of 1.5-2 cm. Aperture of the dee was 4 cm. The amplitude of the acceleration potential was stabilized to an accuracy of 1.5%. To reduce the background due to long-lived radioactive isotopes, the cyclotron chamber was made from the "avial" alloy. Working vaccum was 1 to 2.10-5 mm Hg. The ion source was of the Penning variety and could be displaced in arbitrary direction with affecting the vacuum. Three quartz targets with tungsten wire served as visual or current measuring indicators of the beam. The authors claim that all tests confirmed the linear theory of spacial stability of the charged particle motion in accelerators, and that the methods of creating necessary magnetic field variations exhibit sufficient accuracy.

Card 8/10

A Cyclotron With a Spacially Varying Magnetic Field Intensity

78317 **50**7/89-8-3-2/32

Theoretical and experimental investigation of the spacially varying fields and the methods developed for shimming the central field enable one to obtain, on cyclotrons of appropriate size, resonant accelerations of particles up to energies achieved until now only in phasotrons and with beam currents of the order of hundreds of microamperes. K. A. Baycher, N. I. Frolov, M. F. Shul'ge, and F. V. Chumakov were the managers of various divisions of the OIYaI engaged in the construction of the cyclotron. D. I. Blokhintsev, D. V. Yefremov, K. N. Meshcheryakov, and V. N. Sergiyenko showed interest and helped accelerate the work. E. G. Komar, I. F. Malyshev, and L. N. Fedulov constructed the chamber and the accelerator magnet, while A. V. Chestnyy helped in the early stages of planning the technical problems. There are 9 figures; and 34 references, 22 Soviet, 3 U.K., 9 U.S. The 5 most recent U.K. and U.S. references are: N. King, W. Walkinshow, Nucl. Instr. 2, 4 (1958); D. Kerst, H. Hausman, R. Haxby, L. Laslett, F. Milles, T. Ohkawa, F. Peterson, A. Sessler, J. Snyder,

Card 9/10

A Cyclotron With a Spacially Varying Magnetic Field Intensity

78317 sov/89-8-3-2/32

W. Wallenmeyer, Rev. Scient. Instrum., 28, Nr 11, 970 (1957); W. Walkinshaw, N. King, Linear Theory in S/R Cyclotron Design, AERE, GP/R 2050 (1956); P. Dunn, L. Mullett, T. Pickavance, W. Walkinshaw, J. Wilkins, CERN Symposium, 1, 9 (1956); D. Derst, K. Terwilliger, K. Symon, L. Jones, Bull. Amer. Phys. Soc., 30, Nr 1 (1955).

SUBMITTED:

August 27, 1959

Card 10/10

VASILEVSKAYA, D.P.; DENISOV, Yu.N.

Device for measuring radial and azymuthal components of the permanent magnetic field intensity. Prib.i tekh.eksp. 6 no.5:194-195 S-0 '61. (MIRA 14:10)

1. Ob"yedinennyy institut yadernykh issledovaniy. (Magnetic fields--Measurement)

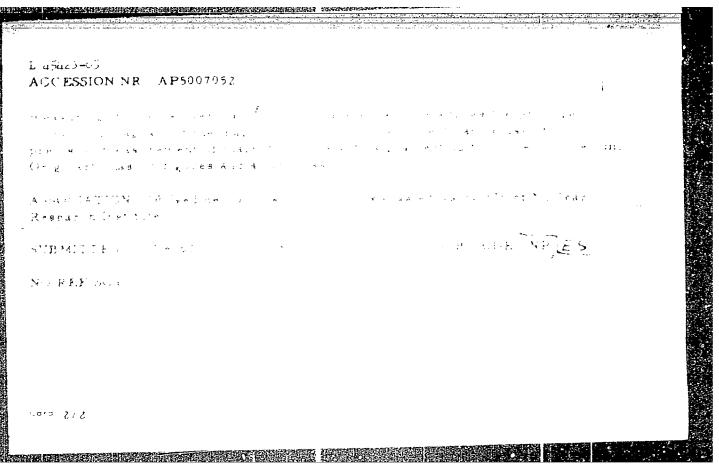
VASILEVSKAYA, D.P.; VASIL'YEV, L.V.; DENISOV, Yu.N.

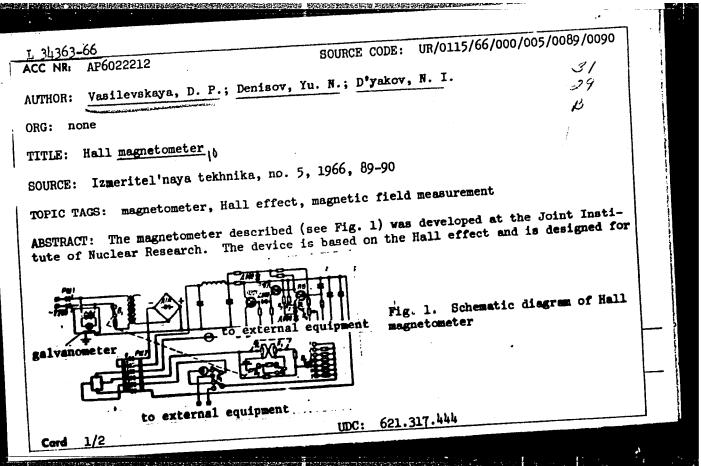
[Nuclear magnetometer for measuring highly non-

[Nuclear magnetometer for measuring highly hour uniform magnetic fields] IAdernyi magnitometer dlia izme-renia sil'no neodnorodnykh magnitnykh polei. Dubna, Ob"-edinennyi in-t iadernykh issledovanii, 1963. 12 p.

(MIRA 17:1)

	internation of the office between this construction in the second of the second of the second of the second of This of the best of the office of the second
the state of the s	
ACCESSON NO April 19	ta see see see see see see see see see se
AT THERE I Vas Burrary, In the San	A STATE OF THE STA
	e e e e e e e e e e e e e e e e e e e
OF DETAILS. magnetometer quelear nu ABSTRACT A nuclear nagnetometer w	
region of the control	alta an a live substance. The
to de la companya de La companya de la co	e toritær e taritær e de være tor
3 · *	
-	





L 34363-66

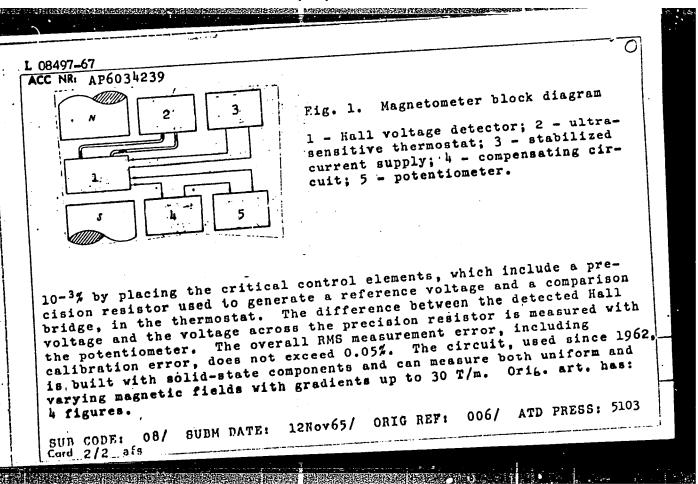
ACC NR: AP6022212

measuring stationary magnetic fields and for determining their configurations. device uses two InAs Hall pickups (5 x 3 x 0.2 mm in size) and is placed between felt paddings in ebonite housings 80 x 20 x 15 mm in dimensions. The sensitivity of the pickups is approximately 0.0015 μv/tesla and their longitudinal and transverse resistances are approximately 2 ohms. Power supply is provided from a stabilized d-c source, which has a voltage stabilization coefficient of 1000, a load stabilization coefficient of 500 and whose load current drift does not exceed \$2.10-3%. The comparison circuit uses a P15 triode, while a P103 silicon transistor is used in the additional amplifying stage. The voltage drop across avalanche diode D808 is used as reference voltage. The excitation current is regulated by potentiometer R4 within 50-150 mamp. The entire range of measured magnetic fields of 0-2 tesla is subdivided into 7 bands. Switch P₂ sets the desired measurement band. The maximal sensitivity of the device is 1.2·10⁻⁵ tesla with the "operating" and 0.83·10⁻⁵ tesla with "stand-by" pickup per one division on the galvanometer scale. When Hall emf is measured with the M95 galvanometer the error of magnetic field measurements is ±0.8%. However, when Hall emf and the excitation current are controlled by the R307 potentiometer, the RMS measurement error is reduced to ±0.3%. Kaplin and P. P. Gavrish for their assistance in the development of the instrument. Orig. art. has: 1 figure.

SUB CODE: 09/ SURM DATE: none/ ORIG REF: 002/ ATD PRESS: 50,33

Card 2/2 P

是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就 (1)B(c) GW SOURCE CODE: UR/0120/66/000/005/0203/0206 . 08497-67 EWT (1)/FCC. AUTHOR: Vasilevskaya, D. P.; Denisov, Yu. N.; D'yakov, N. I. ORG: Joint Institute of Nuclear Research, Dubna (Ob"yedinennyy institut yadernykh issledovaniy) TITLE: A precision Hall magnetometer SOURCE: Pribory i tekhnika eksperimenta, no. 5, 1966, 203-206 TOPIC TAGS: magnetometer, Hall effect ABSTRACT: A magnetometer based on the Hall effect is described which comprises a thermostatically controlled InPAs Hall voltage detector 1.8 x 1.2 x 0.3 mm) in size (1), a Hungarian E149 ultra-sensitive thermostat(2), a stabilized current supply (3), a compensating circuit (4), and a potentiometer (5) (see Fig. 1). The thermostat, which is connected to the detector casing by two insulated rubber hoses, controls the temperature of the detector by circulating water around it. Detector temperature varies no more than ±0.2-0.3C for ambient temperature changes of ±5C and hose lengths of 7 and 14 m. The maximum measurement error for temperature changes of *50 does not exceed 0.008-0.012%. The stabilized current supply provides excitation current (nominal value, 50 mamp) to the detector. This current is kept constant within about UDC: 621.317.444 Card 1/2



VASILEVSKAVA. E. G.

SAENS, Visente [Seenz, Vicente]; MIKHAYLOV, L.R. [translator]; GONIOUSKIY,
S.A., kand.istor.nsuk, red.; VASILEVSKATA, E.G., red.; BELEVA,
N.A., tekhn.red.

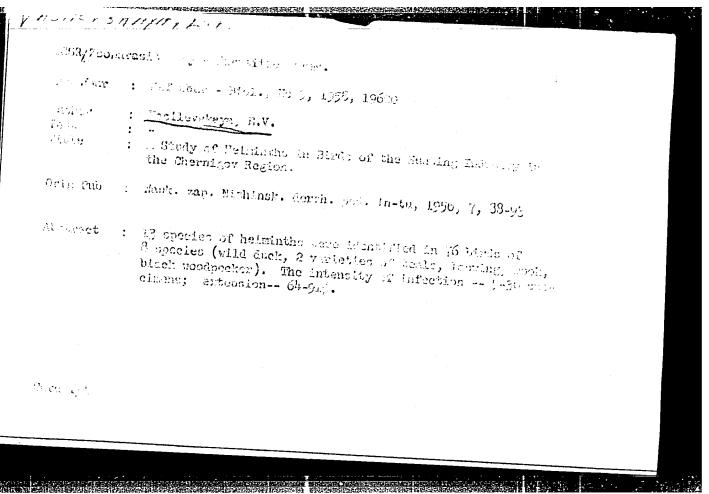
[Problems of interoceanic canals of the American continent] Problemy mezhokeanskikh putei Amerikanskogo kontinente. Moskva, Izd-vo
my mezhokeanskikh putei Amerikanskogo kontinente. Moskva, Izd-vo
(Canals, Interoceanic)

(Canals, Interoceanic)

VASILEVSKAYA, E.S.; SYRKIN, L.N.; SHAMOVSKAYA, M.A.

The state of the s

Methods and apparatuses for the measurement of dynamic magnetostruction parameters. Trudy instal Kom. stand.mer i 1zm. prib no.64:311-320 *62. (MIRA 16:5) (Magnetic measurements—Equipment and supplies)



APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001858810006-4"

VASILEVSKAYA F.M.

23611

OB IZMENENII KhRONAKSII PRI GIFERTONICHESKOY BOLEZNI. KLINICH. MEDITSINA, 1949, No. 7, C. 49-55.—BIBLIOGR: C. 54-55.

SO: LETOPIS' NO. 31, 1949.

Vasilevskata P.M., Shastin, N.H.

So-called lupus crythematosus disseminatus. Ter. arkh., Moskva 25 no.6:63-68 Nov-Dec 1953. (CIML 25:5)

1. Of the Faculty Therapeutic Clinic (Acting Director -- Prof. 7.5. Istamanova), First Leningrad Medical Institute imeni I.P. Pavlov.

VASILEVSKAYA, F.M.; MASIOVA, N.P.; ISTAMANOVA, T.S., professor, ispolnyayushchiy

Findings on modifications of visual chronaxy in hypertension. Klin.med. 31 no.9:46-51 S '53. (MLRA 6:11)

1. Fakul'tetskaya terapevticheskaya klinika I Leningradskogo meditsinskogo instituta im. akademika I.P.Pavlova.

(Hypertension) (Nervous system) (Sight)

VASILEVSKAYA, F. M.

VASILEVSKAYA, F. M. "The functional state of the central nervous system in hypertonic disease, based on data from chronaximetry." First Leningrad Medical Inst imeni Academician I. P. Pavlov. Chair of Faculty Therapy. Leningrad, 1956. (Dissertation for the Degree of Doctor in Sciences)

Medical

So: Knizhnaya Letopis', No. 18, 1956

Name: VASILEVSKAYA, Frida Moiseyevna

Dissertation: Functional state of the central nervous system

during hypertonic disease (based upon data of

chronaxymetry)

Degree: Doc Med Sci

THE RESIDENCE OF STREET OF STREET STREET, STRE

Defense Date, Place: 4 Jun 56, Council of the 1st Leningrad Med Inst

imeni Pavlov

Certification Date: 11 May 57

Source: BNO 15/57

VASILEVSKAYA, Galina [Vasileuskaia, H.]

It's never too late. Rab. i sial. 35 no.10:4-5 '59.
(Gomel'--Women as engineers)

(Gomel'--Women as engineers)

VASILEVSKATA, Galina [Vasileuskaia, Halina]

Motherly care. Rab.i sial. 36 no.1:18-19 Ja '60.
(MIRA 13:5)

1. Tal'kovskiy detskiy dom, Pukhovitskiy rayon.
(Pukhovichi District--Orphans and orphanages)

VASILEVSKAYA, Galina [Vasileuskaia, Halina]

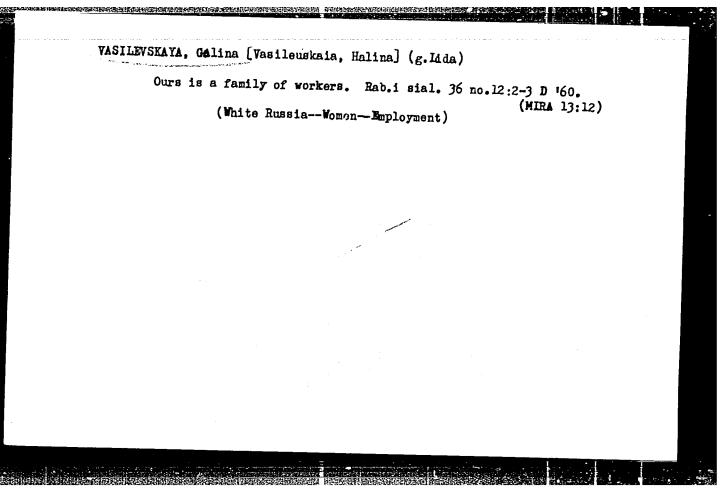
Like pines in a forest. Rab.i sizl. 36 no.5:18-19 My '60.

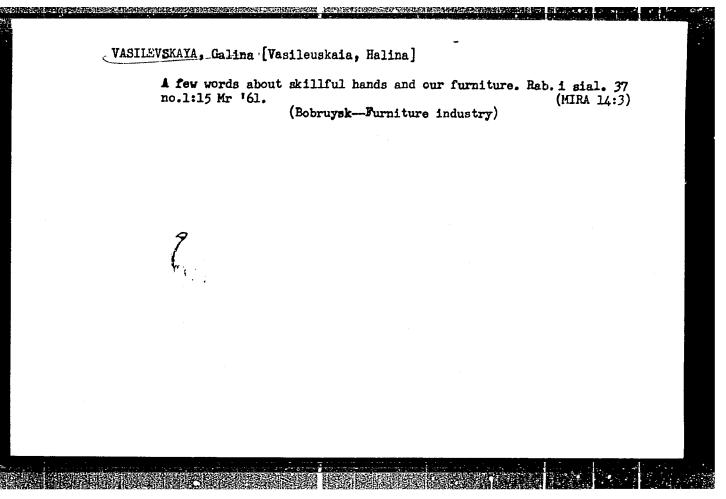
(Pukhovichskiy District--Veterinarians)

VASILEVSKAYA, Galina [Vasileuskaia, H.]

On the Dnieper. Rab.i sial. 36 no.8:2-5 Ag '60. (MIRA 1):10)

(Dnieper Valley--Description and travel)





WASILEVSKAYA, Galina [Vasileuskaia, Halina]

Maryia and her friends. Rab. i sial. 37 no. 4:8-9 Ap '61.

(Efficiency, Industrial)

(Efficiency, Industrial)

VASILEVSKAYA, Calina [Vasileuskaia, Halina]

We have visited the "Kastrychnik" State Farm. Rab.1 sail.
37 no.6:4-5 Je '6l. (MIRA 15:2)

(Khoyniki District—Corn (Maize))

VASTLEVSKAY, Galiba [Vasileuskaia, Halina]

Great Achievements. Rab.i sial. 38 no.3:2-3 Mr '62.
(MIRA 15:2)

(Minak Province—Dairying)

VASILEVSKAYA, G. [Vasileuskaia, H.] (Kobryn)

A "noisy factory." Rab.i sial. 38 no.6:6-7 Je '62.

(Kobrin-Poultry)

VASILEVSKAYA, Galina [Vasileuskaia, Halina]

Evening gatherings on a collective farm. Rab.i sial. 38 no.12:10-11 D '62. (MIRA 16:1)

(Grodno Province—Community centers)

VASILEVEKAYA, Galina[Vasileuskaia, Halina] (Minsk)

Her "laboring class." Rab. i sial. 39 no.5:10 My 163.

(MIRA 16:6)

(Minsk—Labor and laboring classes—Dwellings)

VASILEVSKAYA, Galina [Vasileuskaia, Halina]

They will understand you. Rab. i sial. 39 no.7:9-10
J1 '63. (MIRA 16:11)

L.

USSR/Safety Engineering - Sanitary Engineering. Sanitation.

en de la company de la comp

Abs Jour : Ref Zhur - Khimiya, No 2, 1957, 7030

Author : Glushkov, L.A., Kogan, F.M., Vasilevskaya, G.A.

Title : Effectiveness of Electric Filters for Purification of Air

from Asbestos Dust.

: Sb. Vopr. gigiyeny truda, professional'noy patologii i Orig Pub

toksikologii v prom-sti Sverdl. obl., Sverdlovsk, 1955,

73-79

しょうたけずけっこ じ

Abstract : Description of the conditions, procedure and results of

summer and winter tests of an experimental electric filter of industrial design for the removal of asbestos dust from air used in the recovery of asbestos fiber and the air of the suction draft system. The electric filter, is a dipolar plate filter with horizontal gas flow and rod-shaped precipitation electrodes, was operated as second stage (after the dust-settling chambers),

Card 1/2

Inst

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001858810006-4"

USSR/Safety Engineering - Sanitary Engineering. SAnitation.

L.

Abs Jour :

: Ref Zhur - Khimiya, No 2, 1957, 7030

or third stage dust removal unit (after the settling chambers and a twine filter). With an initial dust concentration, at the ingress to the electric filter, of 0.8-2.4 g/m³ and air velocity, within the active zone, of 1.5 m/second, the degree of air purification in the electric filter was of 94-98%, and residual dust content of the air, prior to discharge to the atmosphere, of 20-100 mg/m³.

Card 2/2

S/062/60/000/009/013/021 B023/B064

AUTHORS:

Shuykin, N. I. and Vasilevskaya, G. K.

TITLE:

Catalytic Dehydration of Alpha Isobutyl Tetrahydrofurane

PERIODICAL:

Izvestiya Akademii nauk SSSR. Otdeleniye khimicheskikh

nauk, 1960, No. 9, pp. 1664-1667

TEXT: N. I. Shuykin, V. A. Tulupov, and I. F. Bel'skiy referred in their paper (Ref. 3) on the dehydration of tetrahydrosylvane on a titanium-alumina catalyst at $500-600^{\circ}$ C and a pressure of 20-30 mm to the fact that this catalyst leads to the formation of both open and cyclic dienes. The authors studied the dehydration of a more complex tetrahydrofurane homolog, viz. α -isobutyl tetrahydrofurane. They carried out this reaction on the same catalyst and expected to obtain 6-methyl pentadiene-1,3 in the mixture with its dehydrocyclization products. At 600 and 550° , and a pressure of 20-30 mm, and a volume rate of $0.1 h^{-1}$, α -isobutyl tetrahydrofurane underwent strong cracking, and, consequently, liquid catalyzates were obtained in a yield of 25-30% only. It was a complex mixture of rapidly resinifying hydrocarbons with a high boiling point. After the

Card 1/2

Catalytic Dehydration of Alpha Isobutyl Tetrahydrofurane

\$/062/60/000/009/013/021 B023/B064

dehydration temperature had been reduced to 400°C and the contact time shortened, a liquid catalyzate was obtained in a yield of 95%. In individual fractions, with boiling points between 121.7-136°C, it contained between 81.0 and 92% diene hydrocarbons. Summing up: Considerable amounts of unsaturated hydrocarbons, especially dienes, may be obtained on the basis of a pentosan-containing initial substance and furfurole, furane homologs, and their tetrahydro derivatives. The finding of conditions for the catalytic dehydration of tetrahydrofurane homologs under the formation of complicated mixtures of dienes and alkenes is regarded as a further task; in this connection it is possible to isolate individual hydrocarbons. A formula of Ye. A. Timofeyeva, T. P. Dobrynina, and V. M. Kleymenova is mentioned. A determination method developed by G.P.Kaufman and G. D. Gal'pern is applied. There are 1 table and 9 references: 6 Soviet, 4 French, 1 US, 2 British, and 1 German.

ASSOCIATION:

Institut organicheskoy khimii im. N.D.Zelinskogo Akademii nauk SSSR (Institute of Organic Chemistry imeni N. D.

Zelinskiy of the Academy of Sciences USSR)

SUBMITTED:

March 18, 1959

Card 2/2

S/020/60/132/04/35/064 B011/B003

5.0400 AUTHORS:

Shuykin, N. I., Corresponding Member of the AS USSR,

Bel'skiy, I. F., Vasilevskaya, G. K.

TITLE:

Catalytic Conversion of 2-Alkyl-5-acylfurans Into

.Alkylphenols 1

PERIODICAL:

Doklady Akademii nauk SSSR, 1960, Vol. 132, No. 4,

pp. 861-863

TEXT: The authors investigated the catalytic hydrogenation of the following alkylacylfurans on Pt-C in a continuous system and at usual pressure: 2-acetylfuran, 2-ethyl-5-acetylfuran, 2-methyl-5-propionyl-furan, and 2-n-propyl-5-acetylfuran. Hydrogenation occurred at 300 - 310°. In all cases the furan ring was hydrogenated on the C-0 bond which is adjacent to the carbonyl group. The resulting intermediates (1,5-diketones) were cyclized in the vapor phase in hydrogenation. Homologs of cyclohexenone formed, which were subsequently dehydrogenated to the corresponding phenol homologs. Carbocyclization of nonsymmetrical

Card 1/3

Catalytic Conversion of 2-Alkyl-5-acyl-furans Into Alkylphenols

S/020/60/132/04/35/064 B011/B003

1,5-diketones generally leads to the formation of two isomeric phenols, as illustrated by the conversion of octanedione-2.6 (see Scheme). The hydrogenolysis of 2-ethyl-5-acetylfuran and 2-methyl-5-propionylfuran yields as primary product exactly the same diketone, i.e., octanedione-2,6. It yields 3-ethylphenol, whereby the ring between the C-atoms 1 and 6 is closed. 2,3-dimethylphenol is formed, however, if the ring between the C-atoms 2 and 7 is closed. 3-n-propylphenol and 2-ethyl-3-methylphenol are similarly formed from 2-n-propyl-5-acetylfuran. The following corresponding aromatic hydrocarbons were obtained by reduction of phenols resulting from 2-methyl-5-propionylfuran and 2-n-propyl-5-acetylfuran: in the first case, ethylbenzene and orthoxylene, in the second, n-propylbenzene and 1-methyl-2-ethylbenzene. Thus, the cyclization of nonsymmetrical diketones, which were obtained as intermediates of the hydrogenation of 2-alkyl-5-acylfurans, may proceed in two directions. In all cases mono- and dialkylphenols are formed. Simultaneously with the main course of the reaction the carbonyl group is primarily reduced. Subsequently, the furan ring is subjected to hydrogenolysis on one of the C-O bonds, whereby corresponding aliphatic ketones (see Scheme) are formed. 2-acetylfuran

Card 2/3

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001858810006-4"

Catalytic Conversion of 2-Alkyl-5-acylfurans Into Alkylphenols

5/020/60/132/04/35/064 B011/B003

holds a special position among the compounds investigated. By its hydrogenolysis on the C-O bond adjacent to the carbonyl group a ketoaldehyde forms. It may not be hydrogenated like a diketone, but is completely decarbonylated to form pentanone-2. There are 4 references, 3 of which are Soviet.

Harding beginning the company of the

ASSOCIATION: Institut organicheskoy khimii im. N. D. Zelinskogo

Akademii nauk SSSR (Institute of Organic Chemistry imeni N. D. Zelinskiy of the Academy of Sciences, USSR)

SUBMITTED:

February 22, 1960

Card 3/3

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001858810006-4"